

INCH-POUND

MIL-DTL-83723/84F
w/AMENDMENT 2
8 March 2024
SUPERSEDING
MIL-DTL-83723/84F
w/AMENDMENT 1
6 February 2018

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, ENVIRONMENT RESISTING, RECEPTACLE, JAM NUT
MOUNT, THREADED COUPLING, CRIMP SOCKET CONTACT,
SERIES III, CLASSES A, G, K, M, N, R, S, T, W AND Z

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification sheet and MIL-DTL-83723.

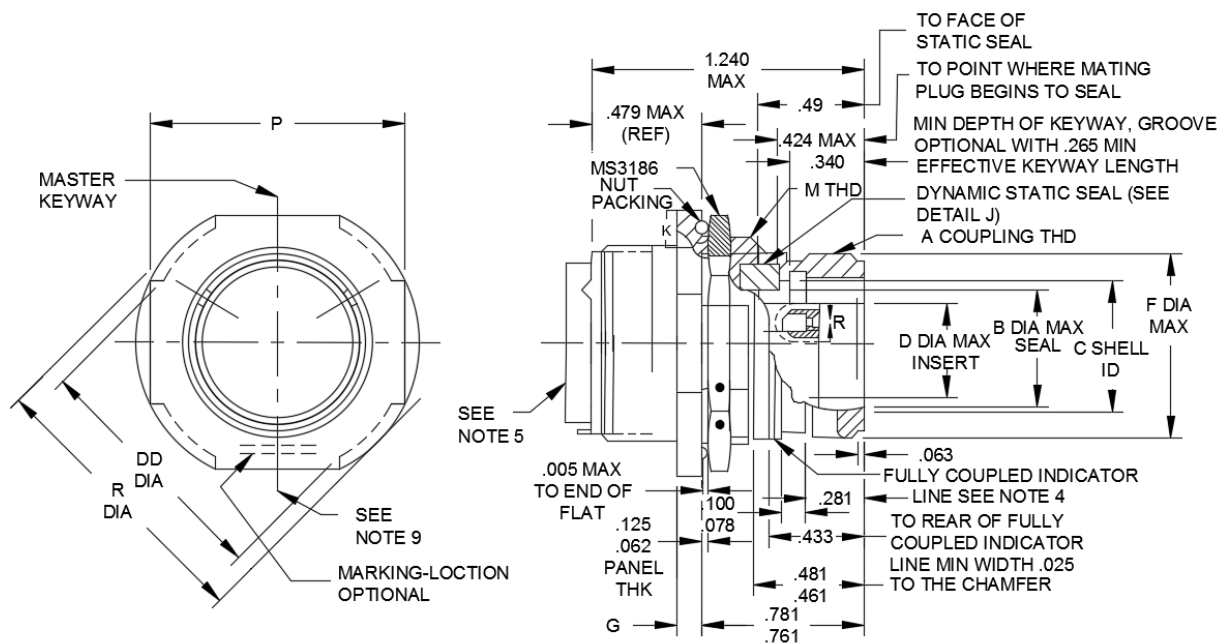


FIGURE 1. Classes A, G, K, M, R, T, W and Z.

AMSC N/A

FSC 5935



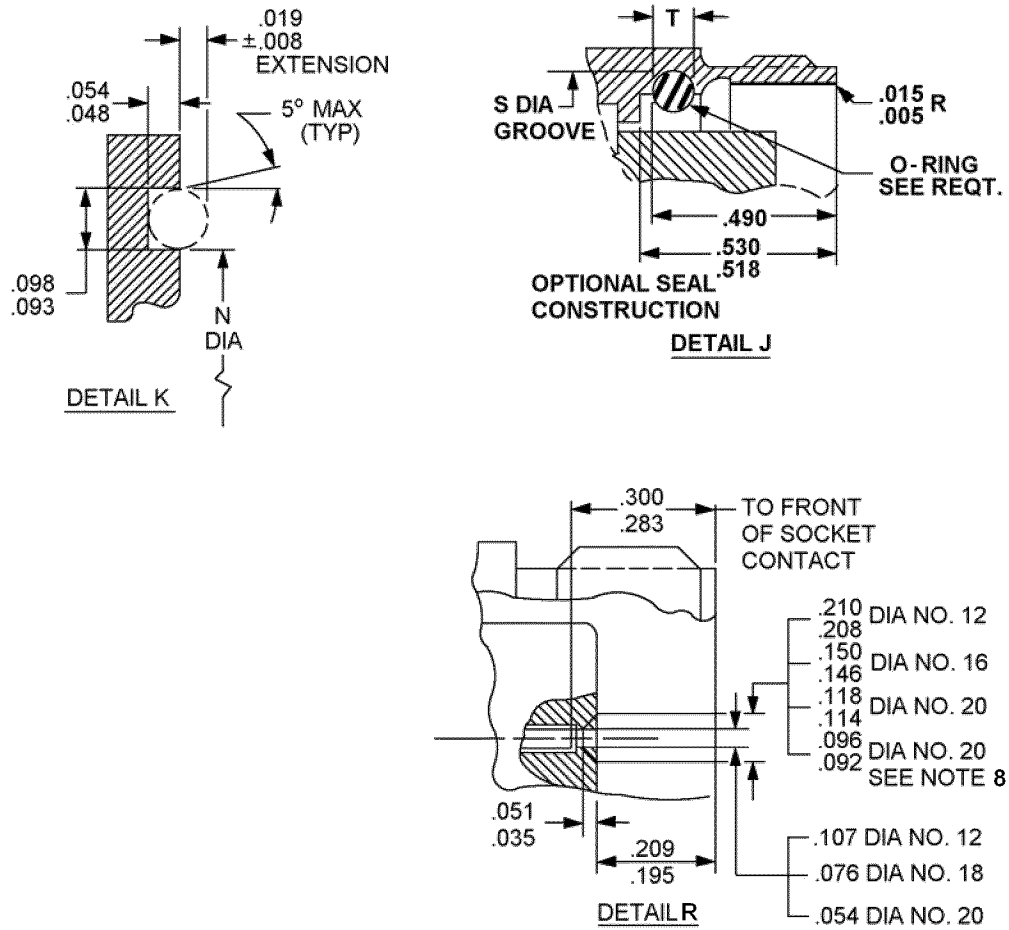


FIGURE 1. Classes A, G, K, M, R, T, W and Z - Continued.

MIL-DTL-83723/84F
w/AMENDMENT 2

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are $\pm .005$ (0.13 mm) for three place decimals and $\pm .01$ (0.25 mm) for two place decimals and $\pm 1^\circ$ for all angles.
4. Coupling indicator line shall be color coded red.
5. Rear accessory interchangeability dimensions shall be in accordance with MIL-DTL-83723.
6. Shell size 8 will not mate with MIL-DTL-26500 connectors.
7. Phantom configuration optional.
8. See table I for contact cavities requiring this dimension.
9. The centerline of indicated projection must be located on vertical centerline $\pm 2^\circ$.

FIGURE 1. Classes A, G, K, M, R, T, W and Z - Continued.

MIL-DTL-83723/84F
w/AMENDMENT 2

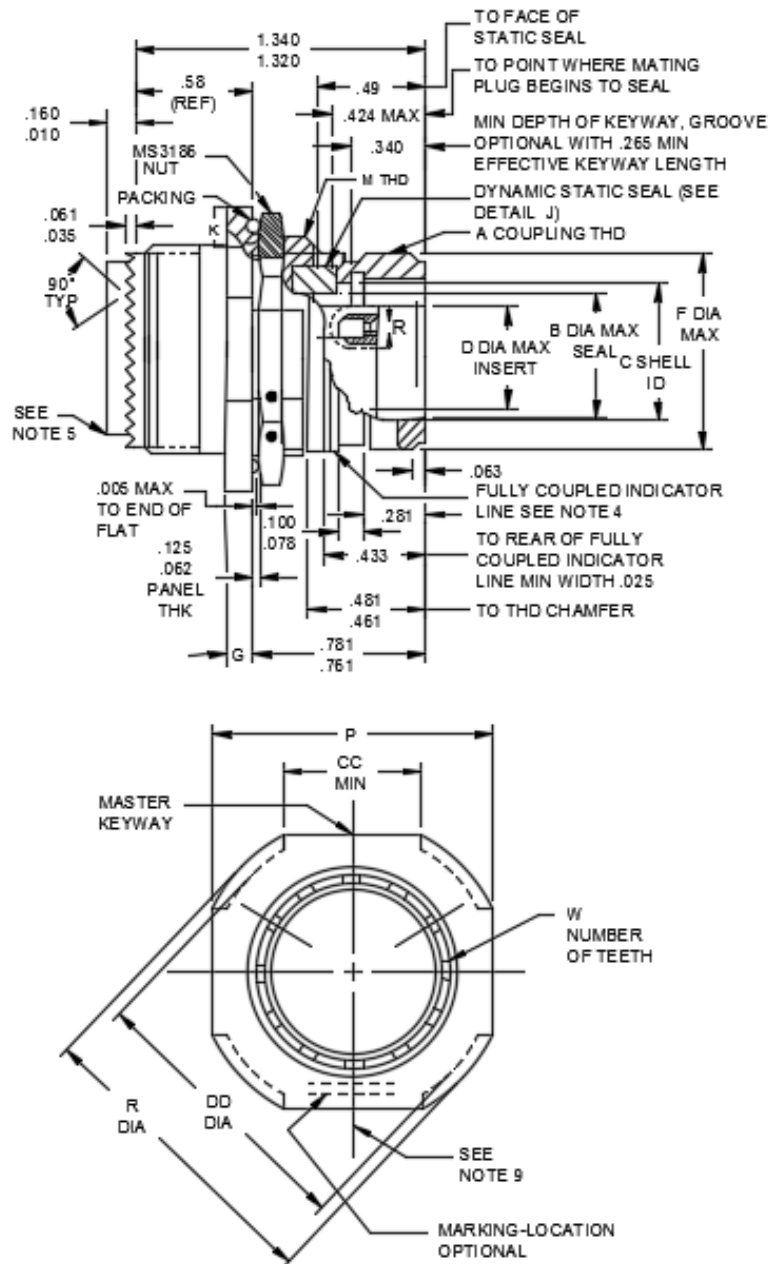
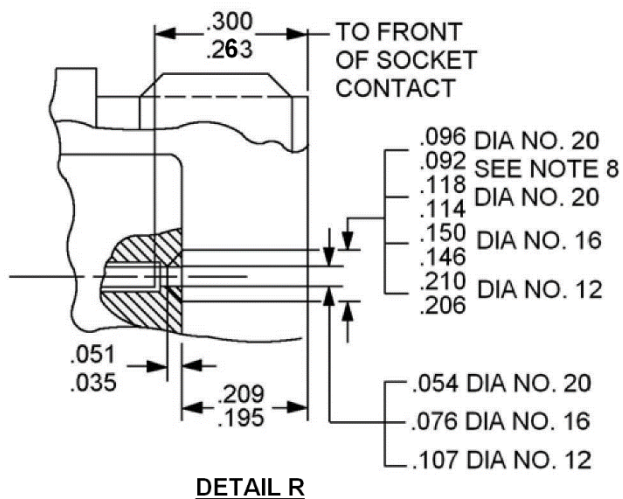
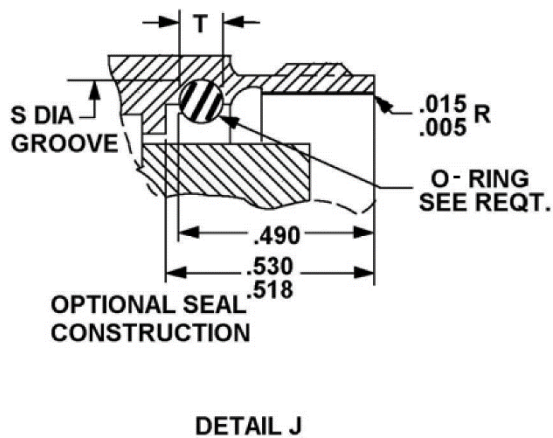
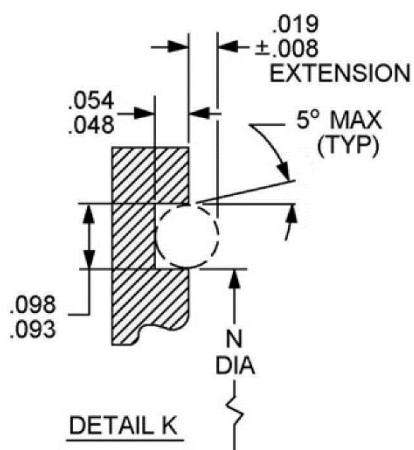


FIGURE 2. Classes N and S.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are $\pm .005$ (0.13 mm) for three place decimals and $\pm .01$ (0.25 mm) for two place decimals and $\pm 1^\circ$ for all angles.
4. Coupling indicator line shall be color coded red.
5. Rear accessory interchangeability dimensions shall be in accordance with MIL-DTL-83723.
6. Shell size 8 will not mate with MIL-DTL-26500 connectors.
7. Phantomed configuration optional.
8. See table I for contact cavities requiring this dimension.
9. The centerline of indicated projection must be located on vertical centerline $\pm 2^\circ$.

FIGURE 2. Classes N and S - Continued.

MIL-DTL-83723/84F
w/AMENDMENT 2

Shell size	A thread	B	D	F
08	.562-24 UNEF-2A	.394	.290	.562
10	.688-24 UNEF-2A	.515	.388	.696
12	.875-20 UNEF-2A	.685	.558	.875
14	.938-20 UNEF-2A	.754	.627	.936
16	1.062-18 UNEF-2A	.881	.772	1.062
18	1.188-18 UNEF-2A	.987	.860	1.187
20	1.312-18 UNEF-2A	1.112	.985	1.312
22	1.438-18 UNEF-2A	1.237	1.110	1.437
24	1.562-18 UNEF-2A	1.362	1.235	1.562

Shell size	C	G	M thread
08	.418 .413	.137 .097	.625-25 UN-2A
10	.535 .530		.750-20 UNEF-2A
12	.705 .700		.938-20 UNEF-2A
14	.774 .769		1.000-20 UNEF-2A
16	.901 .896		1.125-18 UNEF-2A
18	1.007 1.002		1.250-18 UNEF-2A
20	1.132 1.127		1.375-18 UNEF-2A
22	1.257 1.252	.148 .128	1.500-18 UNEF-2A
24	1.382 1.377	.168 .128	1.625-18 UNEF-2A

FIGURE 3. Dimensions and configurations.

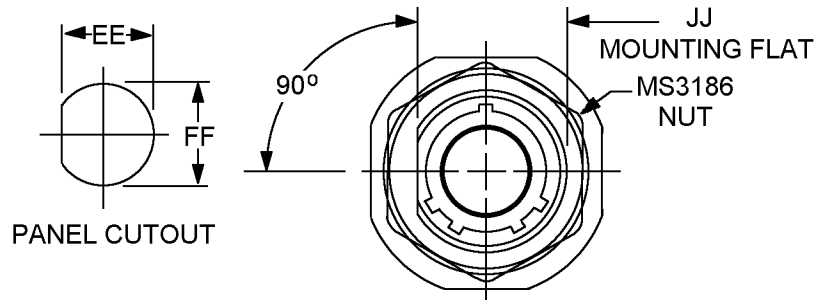
MIL-DTL-83723/84F
w/AMENDMENT 2

Shell size	N	P	R	T
08	.670	.980 .949	1.078 1.047	.076 .071
10	.796	1.104 1.073	1.192 1.161	.089 .084
12	.984	1.291 1.260	1.380 1.349	
14	1.046	1.391 1.360	1.561 1.485	
16	1.171	1.516 1.485	1.641 1.610	
18	1.296	1.641 1.610	1.766 1.735	
20	1.482	1.766 1.735	1.954 1.923	
22	1.609	1.954 1.923	2.078 2.047	
24	1.732	2.079 2.084	2.182 2.152	

Shell size	S +.005 / -.000	W	CC min	DD
08	.490	12	.443	.991
10	.636	15	.443	1.107
12	.806	21	.482	1.295
14	.875	24	.596	1.357
16	1.002	30	.622	1.482
18	1.108	33	.646	1.607
20	1.233	36	.648	1.795
22	1.358	39	.701	1.920
24	1.483	42	.726	2.045

FIGURE 3. Dimensions and configurations - Continued.

MIL-DTL-83723/84F
w/AMENDMENT 2



Shell size	EE	FF	JJ
08	.605	.635	.596 .590
10	.730	.760	.721 .715
12	.917	.947	.908 .902
14	.980	1.010	.971 .965
16	1.105	1.135	1.096 1.090
18	1.229	1.260	1.220 1.214
20	1.354	1.385	1.345 1.339
22	1.479	1.510	1.470 1.464
24	1.604	1.635	1.595 1.589

FIGURE 3. Dimensions and configurations - Continued.

MIL-DTL-83723/84F
w/AMENDMENT 2

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are $\pm .005$ (0.13 mm) for three place decimals and $\pm .01$ (0.25 mm) for two place decimals and $\pm 1^\circ$ for all angles.
4. Coupling indicator line shall be color coded red.
5. Rear accessory interchangeability dimensions shall be in accordance with MIL-DTL-83723.
6. Shell size 8 will not mate with MIL-DTL-26500 connectors.
7. Phantom configuration optional.
8. See table I for contact cavities requiring this dimension.
9. The centerline of indicated projection must be located on vertical centerline $\pm 2^\circ$.

FIGURE 3. Dimensions and configurations - Continued.

REQUIREMENTS:

Dimensions and configurations: See figures 1 and 3 for classes A, G, K, M, R, T, W and Z. See figures 2 and 3 for classes N and S.

This connector mates with MIL-DTL-83723/87, MIL-DTL-83723/92, MIL-DTL-83723/96 and MIL-DTL-83723/98.

Insert arrangements and polarizing positions: See MIL-STD-1554 and table I.

TABLE I. Insert arrangements requiring reduced diameter for lead-in chamfers on outer row of contact cavities as indicated.

Shell size	Insert arrangements	Contact cavities
08	03, 98	1, 2, 3
10	06	1, 2, 3, 4, 5, 6

O-ring: See MIL-DTL-83723.

Part or Identifying Number (PIN) example:

<u>M83723/</u>	<u>84</u>	<u>W</u>	<u>08</u>	<u>55</u>	<u>N</u>
<u>M83723/</u>					
<u>84</u>					
<u>W</u>					
<u>08</u>					
<u>55</u>					
<u>N</u>					

Military designation
Specification sheet number
Class
Shell size
Insert arrangement
Polarizing position

Amendment notations. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are

MIL-DTL-83723/84F
w/AMENDMENT 2

cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. In addition to MIL-DTL-83723, this document references the following:

MIL-STD-1554
MIL-DTL-26500
MIL-DTL-83723/87
MIL-DTL-83723/92
MIL-DTL-83723/96
MIL-DTL-83723/98
MS3186

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - AS
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-2024-063)

Review activities:

Army - AR, MI
Navy - EC
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.